

REPLACEMENT SHEET APPLICANT(S): Grotendorst and Neff
TITLE: CONNECTIVE TISSUE GROWTH FACTOR FRAGMENTS AND METHODS AND USES THEREOF
Application No.: 10/658,856 File Date: September 9, 2003
Docket No.: FIBRO1130-3

cccggccgacagccccgagacgacagcccggcgcgtcccggtccccacctccgaccaccgcca accATGACCGCCGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTC

T A A S M G P V R V A F

GCCCTCTGCAGCCGGCCGGCCGTCGGCCAGAACTGCAGCGGGCCGTGCCGGTGCCCGGAC R G P V G Q N C S Α R |-> exon 2

GAGCCGGCGCGCGCGCGGCGGGCGTGAGCCTCGTGCTGGACGGCTGCGGCTGCTGC G C \mathbf{D} C P A G V S V L $\mathbf L$ R P

CGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCAC R D Ε C T E L G Α K 0 L

AAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCC C G V K Ι N R Α F G S P F C D ->

AAAGATGGTGCTCCCTGCATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCTTCCAG S G R Y G G Т V K D G A P Ι F C exon 3

C M D G A V G C L Т K Y Q C

AGCATGGACGTTCGTCTGCCCAGCCCTGACTGCCCCTTCCCGAGGAGGGTCAAGCTGCCC R R F Р Р D C Ρ Р S D R L

GGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCT V Т P K D С D E V E W C E K C

GCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCC Р T I R Р D F G Т Ε D Y R L Α exon 4 |->

AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC G s K Т C Α С W S Ε С V 0 T

TCCACCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC S Q s C R L E K N Α N D R

FIG. 2A

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ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGGCCAAAAAGTGCATC K G K K C Ε Ε N T K Α D L exon 5 CGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAG Р K F E S C T K Ι ·K Τ L G K ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGCCGATGCTGCACCCCCCACAGA Т C G V C D G R C C Ρ ACCACCACCCTGCCGGTGGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATG Т Ρ V Ε F K C Ρ D G E V Μ K K \mathbf{L} ATGTTCATCAAGACCTGTGCCTGCCATTACAACTGTCCCGGAGACAATGACATCTTTGAA C Α C H Y и с P G D N TCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAagccagagagtgagagacatt М Y G D Μ

FIG. 2B

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cccggccgacagccccgagacgacagcccggcgcgtcccggtccccacctccgaccaccgcca gcgctccaggccccgcgctccccgctcgccaccgcgcctccgctccgctccgcagtgcca accATGACCGCCGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTC

M T A A S M G P V R V A F V V L L

GCCCTCTGCAGCCGGCCGGCCGTCGGCCAGAACTGCAGCGGGCCGTGCCGGAC

A L C S R P A V G Q N C S G P C R C P D

|-> exon 2

GAGCCGGCGCGCGCGCGGCGGGCGTGAGCCTCGTGCTGGACGGCTGCGGCTGCTGC EPAPRCPAGVSLVLDGCGC

CGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCAC

AAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCCKGCLFCDFGSPANRKIGVCTAA

AAAGATGGTGCTCCCTGCATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCTTCCAG
K D G A P C I F G G T V Y R S G E S F Q
exon 3

AGCAGCTGCAAGTACCAGTGCACGTGCCTGGACGGGGCGGTGGGCTGCATGCCCCTGTGC
S S C K Y Q C T C L D G A V G C M P L C

AGCATGGACGTTCGTCTGCCCAGCCCTGACTGCCCCTTCCCGAGGAGGGTCAAGCTGCCC
S M D V R L P S P D C P F P R R V K L P

GGGAAATGCTGCGAGGAGTGGGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCT

GCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCC
A L A A Y R L E D T F G P D P T M I R A

AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC
N C L V O T T E W S A C S K T C G M G I

TCCACCCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC
S T R V T N D N A S C R L E K Q S R L C

FIG. 2-1 2A

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ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAAACATTAAGAAGGGCAAAAAGTGCATC
M V R P C E A D L E E N I K K G K K C I
|-> exon 5

CGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAG R T P K I S K P I K F E L S G C T S M K

ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCACAGA
T Y R A K F C G V C T D G R C C T P H R

ACCACCACCCTGCCGGTGGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATG
T T T L P V E F K C P D G E V M K K N M

ATGTTCATCAAGACCTGTGCCTGCCATTACAACTGTCCCGGAGACAATGACATCTTTGAA M F I K T C A C H Y N C P G D N D I F E

TCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAagccagagagtgagagacatt
S L Y Y R K M Y G D M A *

FIG. 2-20/23